

【書類名】 図面

【図1】 Fig. 1

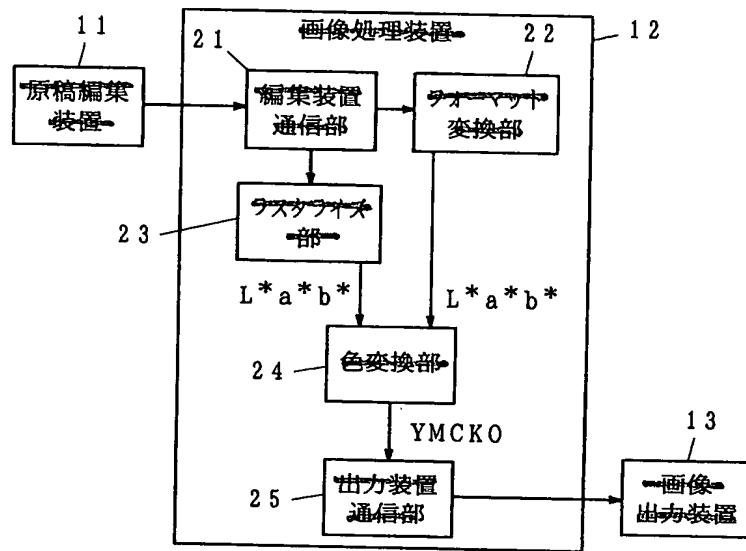


Fig. 2

【図2】

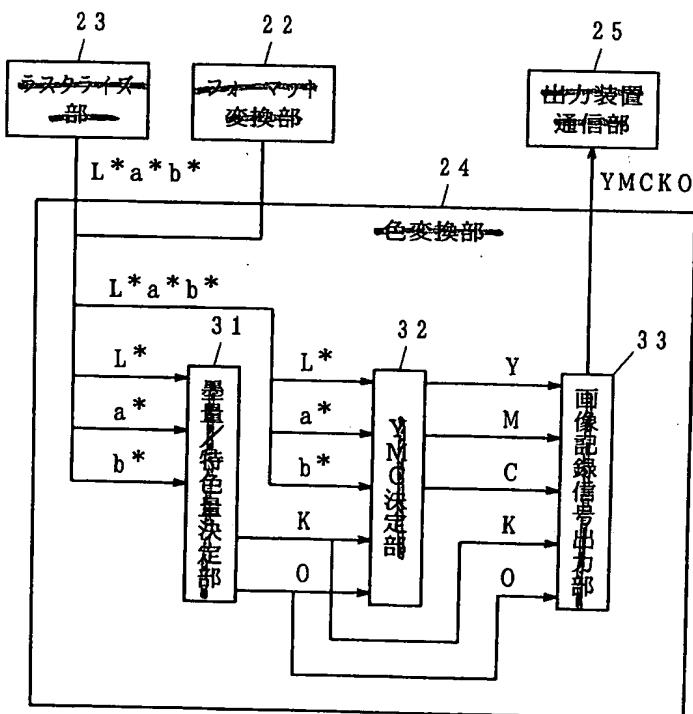


FIG. 1

11 ORIGINAL EDIT APPARATUS
12 IMAGE PROCESSING APPARATUS
13 IMAGE OUTPUT UNIT
21 EDIT APPARATUS COMMUNICATION SECTION
22 FORMAT CONVERSION SECTION
23 RASTERIZING SECTION
24 COLOR CONVERSION SECTION
25 OUTPUT UNIT COMMUNICATION SECTION

FIG. 2

22 FORMAT CONVERSION SECTION
23 RASTERIZING SECTION
24 COLOR CONVERSION SECTION
25 OUTPUT UNIT COMMUNICATION SECTION
31 BLACK AMOUNT/SOLID COLOR AMOUNT DETERMINATION SECTION
32 YMC DETERMINATION SECTION
33 IMAGE RECORD SIGNAL OUTPUT SECTION

—図3—

Fig. 3

in color gamut

K	O	$\Delta E^* ab$	色域内
0	0	0	○
0	25	0	○
0	50	0	○
0	75	0	○
0	100	2	×
25	0	0	○
25	25	0	○
25	50	0	○
25	75	2	×
25	100	4	×
50	0	0	○
50	25	0	○
50	50	2	×
50	75	4	×
50	100	6	×
75	0	0	○
75	25	2	×
75	50	4	×
75	75	6	×
75	100	8	×
100	0	2	×
100	25	4	×
100	50	6	×
100	75	8	×
100	100	10	×

図4 Fig. 4

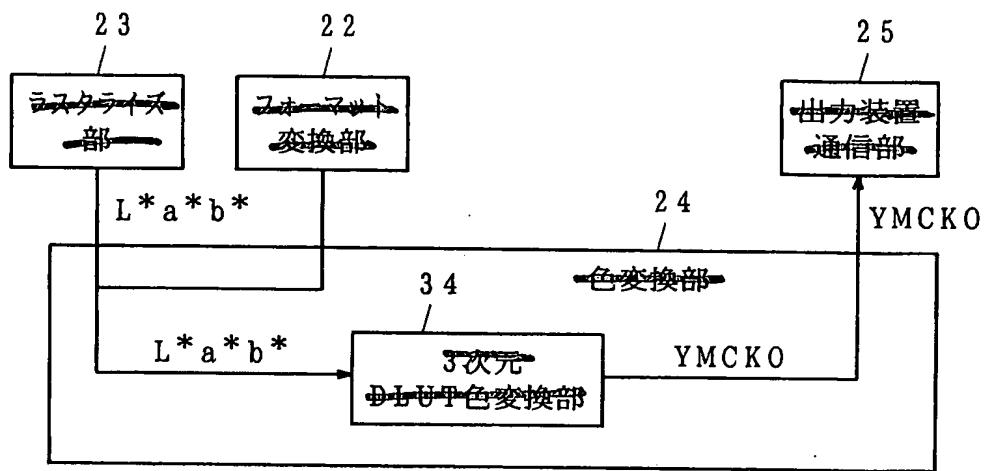


FIG. 4

22 FORMAT CONVERSION SECTION

23 RASTERIZING SECTION

24 COLOR CONVERSION SECTION

25 OUTPUT UNIT COMMUNICATION SECTION

34 THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION

Fig. 5

【図5】

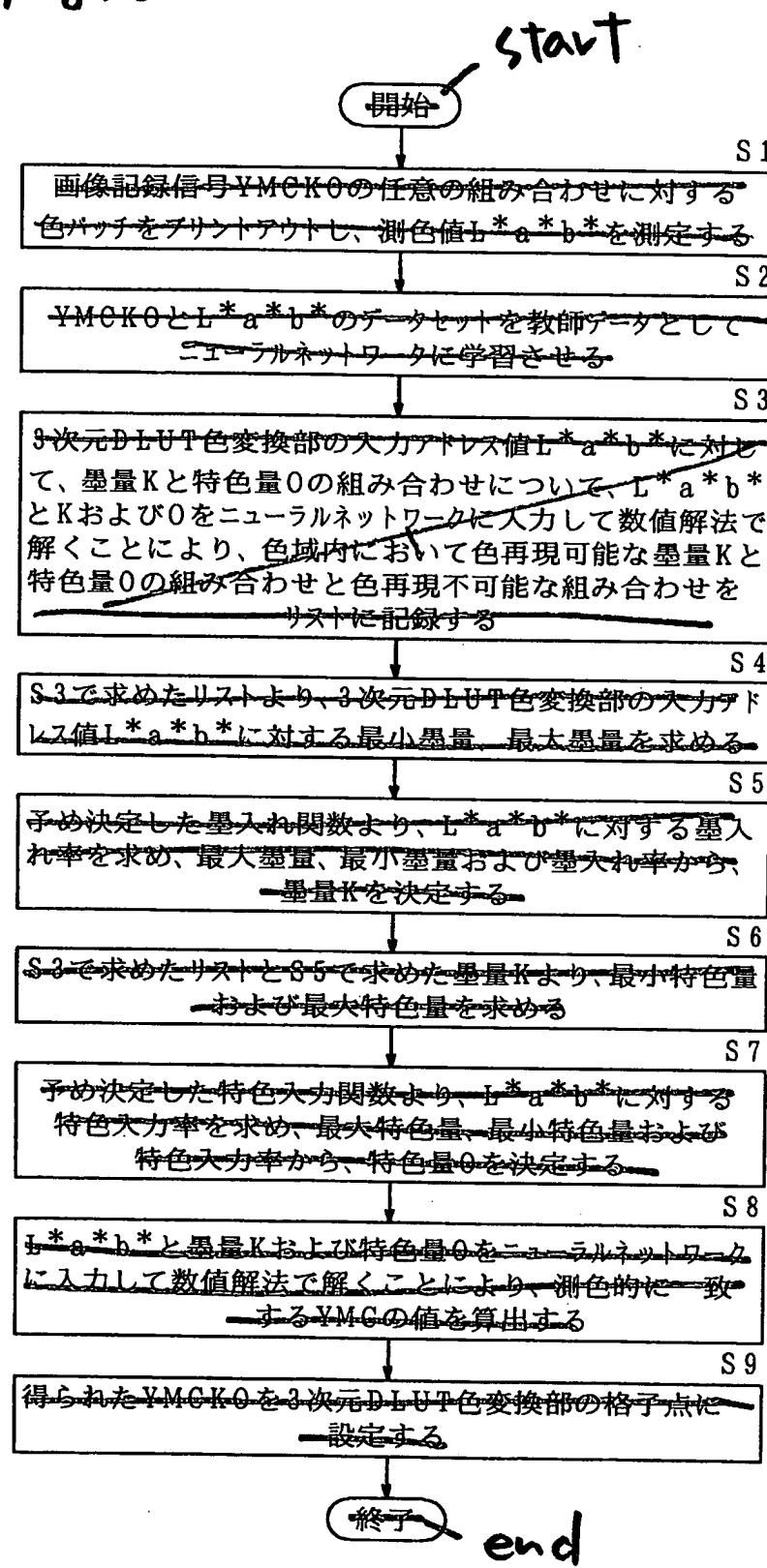


FIG. 5

- S1 PRINT OUT COLOR PATCHES FOR ANY DESIRED COMBINATION OF IMAGE RECORD SIGNAL YMCKO AND MEASURE COLORIMETRIC VALUE $L^*A^*B^*$
- S2 MAKE NEURAL NETWORK LEARN YMCKO AND $L^*A^*B^*$ DATA SETS AS TEACHER DATA
- S3 FOR COMBINATIONS OF BLACK AMOUNT K AND SOLID COLOR AMOUNT O WITH RESPECT TO INPUT ADDRESS VALUE $L^*A^*B^*$ OF THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION, INPUT $L^*A^*B^*$, K, AND O TO NEURAL PNETWORK (COLOR CONVERSION MODEL) AND SOLVE NEURAL NETWORK BY NUMERIC RESOLUTION METHOD, THEREBY RECORDING COMBINATIONS OF BLACK AMOUNT K AND SOLID COLOR AMOUNT O FOR MAKING COLOR REPRODUCTION POSSIBLE IN COLOR GAMUT AND COMBINATIONS FOR MAKING COLOR REPRODUCTION IMPOSSIBLE IN LIST
- S4 FIND MINIMUM AND MAXIMUM BLACK AMOUNTS WITH RESPECT TO INPUT ADDRESS VALUE $L^*A^*B^*$ OF THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION ACCORDING TO LIST PROVIDED AT STEP S3
- S5 FIND BLACKMIXING RATIO TO $L^*A^*B^*$ ACCORDING TO PREDETERMINED BLACKMIXING FUNCTION, AND DETERMINE BLACK AMOUNT K FROM MAXIMUM AND MINIMUM BLACK AMOUNTS AND BLACK MIXING RATIO
- S6 FIND MINIMUM AND MAXIMUM SOLID COLOR AMOUNTS ACCORDING TO LIST PROVIDED AT STEP S3 AND BLACK AMOUNT K FOUND AT STEP S5
- S7 FIND CHROMATIC UCR RATIO TO $L^*A^*B^*$ ACCORDING TO PREDETERMINED SOLID COLOR INPUT FUNCTION, AND DETERMINE SOLID COLOR AMOUNT O FROM MAXIMUM AND MINIMUM SOLID COLOR AMOUNTS

AND CHROMATIC UCR RATIO

S8 INPUT L*A*B*, BLACK AMOUNT K, AND SOLID COLOR AMOUNT O TO NEURAL NETWORK AND SOLVE NEURAL NETWORK BY NUMERIC RESOLUTION METHOD, THEREBY CALCULATING VALUE OF YMC COLORIMETRICALLY MATCHING

S9 SET OBTAINED YMCKO IN LATTICE POINTS OF THREE-DIMENSIONAL DLUT COLOR CONVERSION SECTION

Fig.6

図6

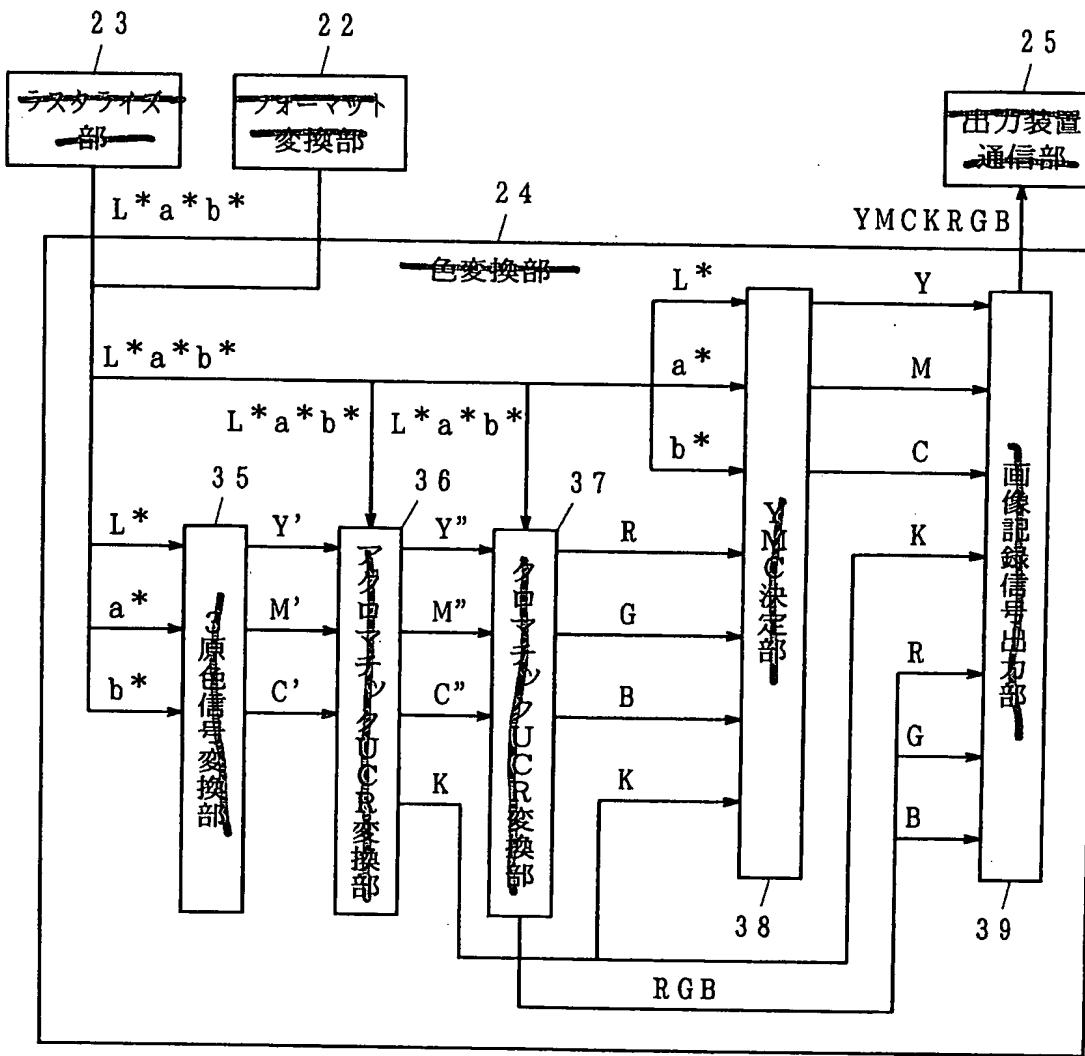


FIG. 6

22 FORMAT CONVERSION SECTION
23 RASTERIZING SECTION
24 COLOR CONVERSION SECTION
25 OUTPUT UNIT COMMUNICATION SECTION
35 THREE PRIMARY COLOR SIGNAL CONVERSION SECTION
36 ACHROMATIC UCR CONVERSION SECTION
37 CHROMATIC UCR CONVERSION SECTION
38 YMC DETERMINATION SECTION
39 IMAGE RECORD SIGNAL OUTPUT SECTION

図7 Fig. 7

